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# ***OAR Box 1194***

*Prepped by Candice Davis*

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***Document Number:***

**63) I**

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***Docket Number:***

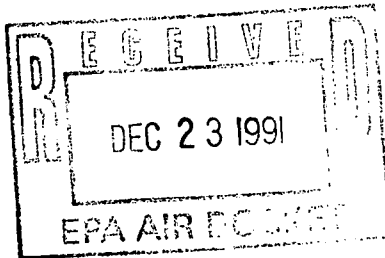
**A-91-46**

A-91-46

DOCKET: A-91-46

CATEGORY: I

The entire contents of Public Docket A-90-16 are hereby incorporated by cross reference into docket A-91-46.

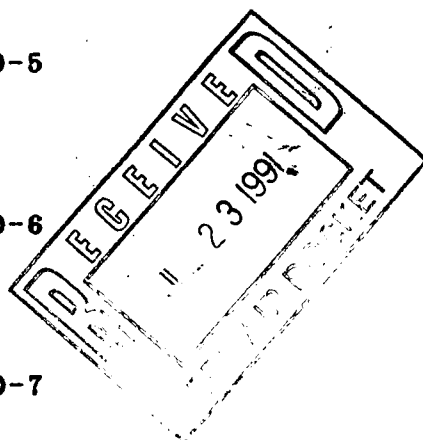


A-91-46

**DOCKET: A-91-46**

**CATEGORY: II-D**

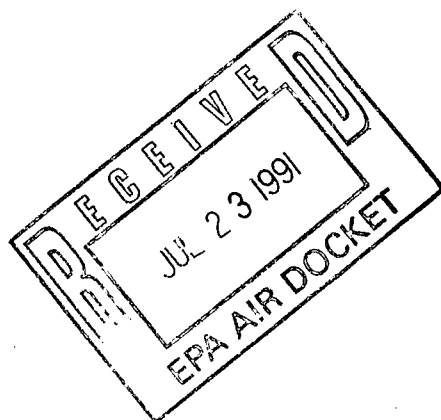
<u>Number</u>	<u>Date Rec'd</u>	<u>Item</u>	<u>Doc.Date</u>
II-D-1		Fuel Waiver Application for Ethyl HITEC 3000 (1991)	7/12/91
II-D-2		Appendices to Ethyl Waiver Application - Volume One (1991)	7/12/91
II-D-3		Appendices to Ethyl Waiver Application - Volume Two (1991)	7/12/91
II-D-4		Fuel Waiver Application for Ethyl HITEC 3000 (1990) (By cross reference to Docket A-90-16, Item # II-D-1)	5/9/90
II-D-5		Appendices to Ethyl Waiver Application - Volume One (1990) (By cross reference to Docket A-90-16, Item # II-D-2)	5/9/90
II-D-6		Appendices to Ethyl Waiver Application - Volume Two (1990) (By cross reference to Docket A-90-16, Item # II-D-3)	5/9/90
II-D-7		Appendices to Ethyl Waiver Application - Volume Three (1990) (By cross reference to Docket A-90-16, Item # II-D-4)	5/9/90
II-D-8		Ethyl Corporation, Jeffrey D. Smith; Letter with Attachments (Comments in Support of the Waiver Application for HiTec 3000 Performance Additive," accompanied by 11 Appendices.) (By cross reference to Docket A-90-16, Item # IV-D-58)	7/23/90
II-D-9		Ethyl Corporation, Jeffrey D. Smith with attachments ("Reply Comments of Ethyl Corporation in Support of the HITEC 3000 Waiver Application," accompanied by 5 Appendices) (By cross reference to Docket A-90-16, Item # IV-D-82)	8/10/90



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II-D-10	Ethyl Corporation (Supplement), Jeffrey G. Smith ("Supplemental Reply of Ethyl Corporation to Late-Filed Comments on Public Health Effects of HITEC-3000," accompanied by 4 Attachments) (By cross reference to Docket A-90-16, Item # IV-D-139)	August 23, 1990
II-D-11	Ethyl Corporation, Jeffrey G. Smith (By cross reference to Docket A-90-16, Item # IV-D-155)	August 30, 1990
II-D-12	Hunton & Williams, J. Adams, <u>et al.</u> ; Letter with attachments addressed to Mary T. Smith (By cross reference to Docket A-90-16, Item # IV-D-191)	October 19, 1990
II-D-13	Hunton & Williams, J. Adams, <u>et al.</u> ; Letter with attachments addressed to Mary T. Smith (By cross reference to Docket A-90-16, Item # IV-D-194)	October 25, 1990
II-D-14	Hunton & Williams, J. Adams, <u>et al.</u> ; Letter with attachments addressed to Mary T. Smith (By cross reference to Docket A-90-16, Item # IV-D-197)	October 30, 1990



DOCKET: A-91-46

CATEGORY: II-D

Correspondence Received from Persons Outside the Agency

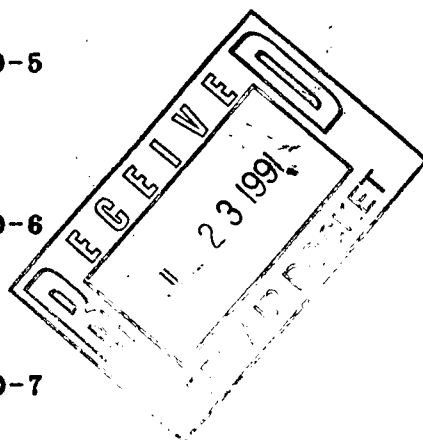
<u>NUMBER</u>	<u>DATE REC'D IN DOCKET</u>	<u>COMMENTS OR ADDRESSEE, TITLE, DESCRIPTION, ETC.</u>	<u>DATE OF DOCUMENT</u>
II-D-15	08-13-91	Letter from Jerry Garbutt, Clark Oil & Refining Corporation, to William K. Reilly	07-22-91

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DOCKET: A-91-46

CATEGORY: II-D

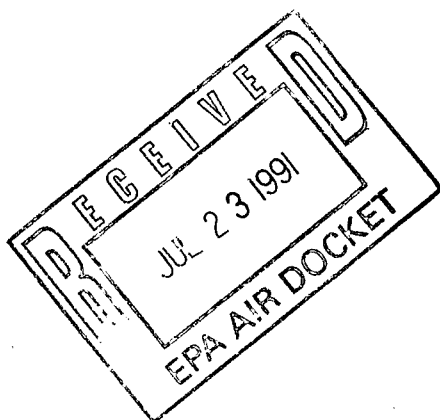
<u>Number</u>	<u>Date Rec'd</u>	<u>Item</u>	<u>Doc.Date</u>
II-D-1		Fuel Waiver Application for Ethyl HITEC 3000 (1991)	7/12/91
II-D-2		Appendices to Ethyl Waiver Application - Volume One (1991)	7/12/91
II-D-3		Appendices to Ethyl Waiver Application - Volume Two (1991)	7/12/91
II-D-4		Fuel Waiver Application for Ethyl HITEC 3000 (1990) (By cross reference to Docket A-90-16, Item # II-D-1)	5/9/90
II-D-5		Appendices to Ethyl Waiver Application - Volume One (1990) (By cross reference to Docket A-90-16, Item # II-D-2)	5/9/90
II-D-6		Appendices to Ethyl Waiver Application - Volume Two (1990) (By cross reference to Docket A-90-16, Item # II-D-3)	5/9/90
II-D-7		Appendices to Ethyl Waiver Application - Volume Three (1990) (By cross reference to Docket A-90-16, Item # II-D-4)	5/9/90
II-D-8		Ethyl Corporation, Jeffrey D. Smith; Letter with Attachments (Comments in Support of the Waiver Application for HiTec 3000 Performance Additive," accompanied by 11 Appendices.) (By cross reference to Docket A-90-16, Item # IV-D-58)	7/23/90
II-D-9		Ethyl Corporation, Jeffrey D. Smith with attachments ("Reply Comments of Ethyl Corporation in Support of the HITEC 3000 Waiver Application," accompanied by 5 Appendices) (By cross reference to Docket A-90-16, Item # IV-D-82)	8/10/90



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- 2 -

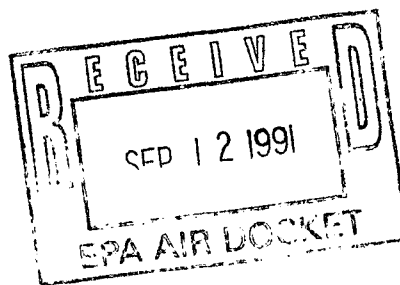
II-D-10	Ethyl Corporation (Supplement), Jeffrey G. Smith ("Supplemental Reply of Ethyl Corporation to Late-Filed Comments on Public Health Effects of HITEC-3000," accompanied by 4 Attachments) (By cross reference to Docket A-90-16, Item # IV-D-139)	August 23, 1990
II-D-11	Ethyl Corporation, Jeffrey G. Smith (By cross reference to Docket A-90-16, Item # IV-D-155)	August 30, 1990
II-D-12	Hunton & Williams, J. Adams, <u>et al.</u> ; Letter with attachments addressed to Mary T. Smith (By cross reference to Docket A-90-16, Item # IV-D-191)	October 19, 1990
II-D-13	Hunton & Williams, J. Adams, <u>et al.</u> ; Letter with attachments addressed to Mary T. Smith (By cross reference to Docket A-90-16, Item # IV-D-194)	October 25, 1990
II-D-14	Hunton & Williams, J. Adams, <u>et al.</u> ; Letter with attachments addressed to Mary T. Smith (By cross reference to Docket A-90-16, Item # IV-D-197)	October 30, 1990



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CATEGORY:    III

<u>Number</u>	<u>Date Rec'd</u>	<u>Item</u>	<u>Doc.Date</u>
III-A-1		<u>Federal Register</u> Notice of Application (56 FR 36810)	8/1/91
III-A-2		<u>Federal Register</u> Notice of Change of Hearing Date	9/3/91

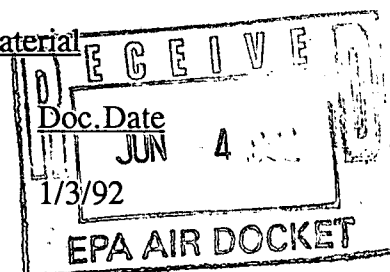


DOCKET: A-91-46

CATEGORY: IV-B

EPA Factual Memoranda and Other Related Factual Material

<u>Number</u>	<u>Date Rec'd</u>	<u>Item</u>
IV-B-1		Memo from Martin E. Reineman Regarding deleting of LA-4 Prep in FTP Testing
IV-B-2		Memo (with attachments) from Martin E. Reineman Regarding Ford/EPA Correlation Testing
IV-B-3		Memo from John W. Holley Regarding EPA Statistical Tests on Ford Data
IV-B-4		Memo from Sobotka, Inc., to EPA Regarding Refinery Analysis of MMT
IV-B-5		Driving Cycle Data from Various Sources Assembled by EPA
IV-B-6		Graphical Analysis of HC Burden Resulting from Use of MMT
IV-B-7		Analysis of MMT Effect on HC Tonnage
IV-B-8		ORD's Comments on Ethyl Corp.'s Resubmittal of a Waiver Application for MMT
IV-B-9		Analyses of MMT Effect on HC Tonnage
IV-B-10		Analysis of MMT Effect on HC Tonnage
IV-B-11		Excerpt from <u>Heterogeneous Catlysis in Practice</u> by C.N. Satterfield, 1987.
IV-B-12		Excerpt from <u>Heterogeneous Catalysis Principles and Applications</u> by Oxford Science Publications

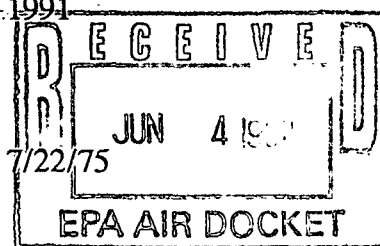


DOCKET: A-91-46

CATEGORY: IV-B (continued - page 2)

EPA Factual Memoranda and Other Related Factual Material

<u>Number</u>	<u>Date Rec'd</u>	<u>Item</u>	<u>Doc.Date</u>
IV-B-13		Disposition of Petroleum Products, Energy Information Administration, "Petroleum Supply Monthly", Table 5.	1991
IV-B-14		USEPA MSAPC Advisory Circular 37-A. Alternative Mileage Accumulation Procedure	7/22/75
IV-B-15		"Gasoline Additives Solve Injector Deposit Problems", by D.L. Lenane and T.P. Stocky, SAE Paper 861537	10/6/86
IV-B-16		"Results of Coordinating Research Council MMT Field Test Program" by J.D. Benson, R.J. Campion and L.J. Painter SAE Paper 790706.	6/11/79
IV-B-17		"How MMT Causes Plugging of Monolithic Converters" by R.L. Furey and J.G. Summers SAE Paper 780004.	2/27/78
IV-B-18		"Manganese Fuel Additive (MMT) Can Cause Vehicle Problems" by J.D. Benson SAE Paper 770655	6/7/77
IV-B-19		"Ozone Nonattainment Analysis Clean Air Amendments of 1990" (Excerpts) Draft Report Prepared for EPA by E.H. Pechan and Associates	9/91



DOCKET: A-91-46

CATEGORY: IV-D

Correspondence Received from Persons Outside the Agency

<u>NUMBER</u>	<u>DATE REC'D IN DOCKET</u>	<u>COMMENTS OR ADDRESSEE, TITLE, DESCRIPTION, ETC.</u>	<u>DATE OF DOCUMENT</u>
IV-D-01	09-05-91	Letter w/attachment from David L. Kulp, Ford Motor Company	09-04-91
IV-D-02	09-10-91	Letter w/attachment from David L. Kulp, Ford Motor Company	09-06-91
IV-D-03	09-10-91	Letter from Harry W. McSwain, Crysen Refining	08-30-91
IV-D-04	09-17-91	Letter from V.G. Beghini, Marathon Oil Company	09-03-91
IV-D-05	09-23-91	Letter from Dennis J. McCormick, Wyoming Refining Company	09-17-91
IV-D-06	09-24-91	Letter from Jeff Utley, Flying J Inc.	09-18-91
IV-D-07	09-25-91	Letter from A. Joe Warr, Gary-Williams Energy Corporation	08-05-91
IV-D-08	09-25-91	Letter from Glenn C. Lingle, Paramount Petroleum	09-19-91
IV-D-09	09-25-91	Letter from B.F. Dahlstrom, Consumers' Co-operative Refineries Limited (CO-OP)	09-19-91
IV-D-10	09-26-91	Letter w/attachment from David L. Kulp, Ford Motor Company	09-23-91
IV-D-11	09-26-91	Letter from Carl D. Shook, Giant Industries	09-20-91
IV-D-12	09-30-91	Letter from Robert E. Yancey, Jr., Ashland Petroleum Company	09-24-91
IV-D-13	09-30-91	Letter from A.L. Gualtieri, Powerine Oil Co.	09-24-91
IV-D-14	09-30-91	Letter w/attachment from W. Jeffrey Hart, MAPCO Petroleum, Inc.	09-23-91
IV-D-15	10-01-91	Letter from W.S. Dickinson, ARCO Products Co.	10-01-91
IV-D-16	10-02-91	Letter from T.R. Clapp, Imperial Oil Limited	10-01-91
IV-D-17	10-03-91	Letter from G.E. Allardyce, Chrysler Motors	10-02-91

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CATEGORY: IV-D

Correspondence Received from Persons Outside the Agency

<u>NUMBER</u>	<u>DATE REC'D IN DOCKET</u>	<u>COMMENTS OR ADDRESSEE, TITLE, DESCRIPTION, ETC.</u>	<u>DATE OF DOCUMENT</u>
IV-D-18	10-03-91	Letter w/attachment from Donald R. Lynam, Ethyl Corporation, to David Kulp, Ford Motor Company	10-02-91
IV-D-19	10-03-91	Letter w/attachment from Bruce I. Bertelsen, Manufacturers of Emission Controls Association (MECA), to William K. Reilly, EPA	10-03-91
IV-D-20	10-03-91	Letter w/attachment from R.E. Dart, Petro-Canda Products	10-02-91
IV-D-21	10-04-91	Letter w/attachment from Ronald W. Wood, New York University Medical Center, to Mary T. Smith, EPA	10-03-91
IV-D-22	10-04-91	Letter from Urvan R. Sternfels, National Petroleum Refiners Association (NPRA)	10-01-91
IV-D-23	10-04-91	Letter from Ray A. Freels, Kerr-McGee Refining Corporation (KMRC)	09-30-91
IV-D-24	10-04-91	Letter from Edward G. Remmers, American Council on Science and Health	10-01-91
IV-D-25	10-04-91	Letter from James H. McCoy, Total Petroleum	09-30-91
IV-D-26	10-04-91	Letter w/attachment from Francis J. Keenan, Chemetals, Inc.	10-04-91
IV-D-27	10-04-91	Letter w/attachment from Francis J. Keenan and Christopher T. Shaper, Chemetals, Inc.	10-03-91
IV-D-28	10-04-91	Letter w/attachment from Karen Florini, Environmental Defense Fund (EDF)	10-04-91
IV-D-29	10-04-91	Letter from R. Thomas Van Arsdall, National Council of Farmer Cooperatives, to William K. Reilly, EPA	10-03-91
IV-D-30	10-04-91	Letter w/attachment from Gregory J. Dana, Association of International Automobile Manufacturers, Inc. (AIAM)	10-04-91

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CATEGORY: IV-D

Correspondence Received from Persons Outside the Agency

<u>NUMBER</u>	<u>DATE REC'D IN DOCKET</u>	<u>COMMENTS OR ADDRESSEE, TITLE, DESCRIPTION, ETC.</u>	<u>DATE OF DOCUMENT</u>
IV-D-31	10-04-91	Letter w/attachment from Samuel A. Leonard, General Motors Corporation	10-04-91
IV-D-32	10-04-91	Letter w/attachment from Jeffrey G. Smith, Ethyl Corporation, to William K. Reilly, EPA	10-04-91
IV-D-33	10-07-91	Letter from John Warner, United States Senate (Virginia), to William K. Reilly (EPA)	09-19-91
IV-D-34	10-07-91	Letter from Beatrice E. Willard, to William K. Reilly (EPA)	09-30-91
IV-D-35	10-07-91	Letter w/attachment from James D. Boyd, California Air Resources Board (CARB)	10-04-91
IV-D-36	10-07-91	Letter w/attachment from Donald R. Buist, Ford Motor Company	10-03-91
IV-D-37	10-08-91	Letter from Donald R. Ingram, Husky Oil	10-02-91
IV-D-38	10-08-91	Letter from Gary B. Fuller, Placid Refining Company, to William K. Reilly (EPA)	10-04-91
IV-D-39	10-08-91	Letter from John L. Orahoad, Sergeant Oil and Gas Co., Inc.	10-03-91
IV-D-40	10-08-91	Letter from Robert G. Tripp, Pennzoil Products Company	10-04-91
IV-D-41	10-08-91	Letter from A. Joe Warr, Gary-Williams Energy Corporation	10-01-91
IV-D-42	10-09-91	Letter w/attachment from Marc Fautsch and Ph. Cauwe, Sedema, Division of Sadacem S.A.	10-02-91
IV-D-43	10-10-91	Letter w/attachment from Takao Niwa, Toyota Technical Center, U.S.A., Inc., to Mary T. Smith, EPA	10-02-91
IV-D-44	10-16-91	Letter from J.B. Durrett, Sergeant Oil & Gas Co., Inc.	10-07-91

DOCKET: A-91-46

CATEGORY: IV-D

Correspondence Received from Persons Outside the Agency

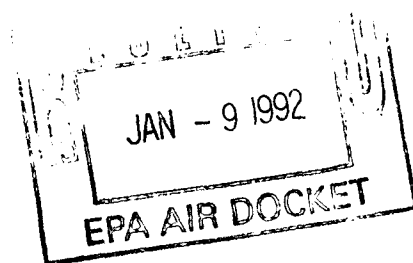
<u>NUMBER</u>	<u>DATE REC'D IN DOCKET</u>	<u>COMMENTS OR ADDRESSEE, TITLE, DESCRIPTION, ETC.</u>	<u>DATE OF DOCUMENT</u>
IV-D-45	10-17-91	Letter from M.D. Ensign, Sinclair to William K. Reilly, EPA	10-01-91
IV-D-46	10-23-91	Letter from Richard D. Erdman, Fletcher Oil and Refining Company	10-14-91
IV-D-47	10-25-91	Letter from Lewis P. Lipsitt, Advancing Psychology Association (APA)	10-04-91
IV-D-48	10-29-91	Letter from Alvin L. Barth, Jr., State Representative, State House to William K. Reilly, EPA	10-11-91
IV-D-49	11-04-91	Letter from David L. Kulp, Ford Motor Co., w/attachment	10-28-91
IV-D-50	11-06-91	Letter from Hon. Ralph Ferguson, House of Commons, w/attachment	09-24-91
IV-D-51	11-27-91	Letter w/attachment from Kevin L. Fast, Hunton & Williams; comments submitted on behalf of Ethyl Corporation	11-26-91
IV-D-52	12-02-91	Letter from Mary Kohler, Windway Capital Corp., to William Reilly	10-18-91
IV-D-53	12-04-91	Letter w/attachment from David L. Kulp, Ford Motor Company	12-03-91
IV-D-54	12-05-91	Memo from David J. Kortum, EPA/OAR, to Air Docket transmitting Toyota's November 27, 1991 Submission on MMT (attached)	12-05-91
IV-D-55	12-05-91	Letter w/attachment from Takao Niwa, Toyota Technical Center U.S.A, Inc., to Mary T. Smith	12-02-91
IV-D-56	12-05-91	Letter from Thomas C. Covert, United Refining Company, to William K. Reilly	10-22-91
IV-D-57	12-05-91	Letter from Lyn Nofziger, to William Reilly	11-08-91

DOCKET: A-91-46CATEGORY: IV-DCorrespondence Received from Persons Outside the Agency

<u>NUMBER</u>	<u>DATE REC'D IN DOCKET</u>	<u>COMMENTS OR ADDRESSEE, TITLE, DESCRIPTION, ETC.</u>	<u>DATE OF DOCUMENT</u>
IV-D-58	12-05-91	Constituent Letters (47) to the Honorable George Bush regarding Ethyl's Gasoline Additive HiTEC	11-19-91
IV-D-59	12-05-91	Letter w/attachment from John J. Adams, F. William Brownell, and Kevin L. Fast, HUNTON & WILLIAMS, to Mary T. Smith; submitted on behalf of Ethyl Corporation	12-11-91
IV-D-60	12-16-91	Letter w/attachment from Jeffrey G. Smith, Ethyl Corporation, to Mary T. Smith, EPA	12-16-91
IV-D-61	12-18-91	Letter w/attachment from Gerard D. Pfeifer, Ethyl Corporation, to Peter Preuss, EPA	12-18-91
IV-D-62	12-20-91	Letter w/attachment from John J. Adams, Hunton & Williams, to Mary T. Smith, EPA	12-20-91
IV-D-63	01-06-92	Letter w/attachments from John J. Adams Hunton & Williams, to Mary T. Smith, EPA	01-06-92
IV-D-64	01-09-92	Letter from David L. Kulp, Ford Motor Company to David J. Kortum, EPA	01-06-92
IV-D-65	01-09-91	Memo from David J. Kortum, EPA/OAR, to Air Docket transmitting Toyota's November 27, 1991 Document (attached) See also No. IV-D-54	01-08-92

DOCKET:    A-91-46

CATEGORY:    IV-E



EPA Memoranda of Meetings or Telephone Conversations with Outside Persons

<u>Number</u>	<u>Date Rec'd</u>	<u>Item</u>	<u>Doc.Date</u>
IV-E-1		Memo on August 13, 1991 telephone conversations and August 28, 1991 EPA Meeting with Ford Motor Company	9/11/91
IV-E-2		Memo on FAX correspondence and telephone conversations with Ford Motor Company	10/1/91
IV-E-3		Memo on telephone conversation with Ms. Susannah Prindle	10/4/91
IV-E-4		Memo on October 9, 1991 EPA meeting with Ford and October 15, 1991 meeting with Ethyl.	10/23/91
IV-E-5		Memo on October 29, 1991 Meeting with Ford Motor Co., October 31, 1991 Telephone Conversation with Ethyl Corp., November 14, 1991 meeting with Ethyl Corp., and November 15, 1991 telephone Conversation with Ford.	11/26/91
IV-E-6		Memo on 12/16 Telephone Conversation Between EPA and Toyota Technical Center, U.S.A.	1/2/92
IV-E-7		Memo on Meeting Between EPA Office of Research and Development and Ethyl Corp.	12/26/91
IV-E-8		Memo on 12/19 Telephone Conversation Between EPA and Ford Motor Company	1/2/92
IV-E-9		Memo on 12/19/91 Telephone Conversation Between the Administrator and Auto Industry Representatives	1/8/92
IV-E-10		Memo on 1/7/92 Meeting Between the Administrator and Ethyl Corp.	1/9/92

DOCKET:    A-91-46

CATEGORY:   IV-F

Transcript of Hearing and Other Materials

<u>Number</u>	<u>Date Rec'd</u>	<u>Item</u>	<u>Doc.Date</u>
IV-F-1		Hearing submittal from Ethyl Corporation	9/12/91
IV-F-2		Hearing submittal from Albert C. Kolbye	9/12/91
IV-F-3		Hearing submittal from Dewey Mark	9/12/91
IV-F-4		Hearing submittal from Scott Pattison of Consumer Alert	9/12/91
IV-F-5		Hearing submittal from Motor Vehicle Manufacturers Association	9/12/91
IV-F-6		Transcript of Hearing	9/12/91

